## Michigan's Pandemic Influenza/Avian Influenza Preparedness

#### A Multi-Agency Response

- MDCH Director, Janet Olszewski
- DNR Director, Rebecca Humphries
- MDA Director, Mitch Irwin
- February 14, 2006
- Joint House Committee Meeting





#### Avian Influenza in birds

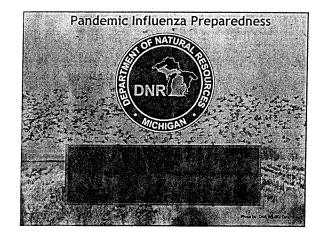
- Highly pathogenic avian influenza causes contagious illness and/or death in domestic poultry; Low pathogenic causes mild to no illness
- Vast majority of AI viruses found in birds do not represent a public health concern
- Avian influenza H5N1 Strain first identified in 1997, Hong Kong

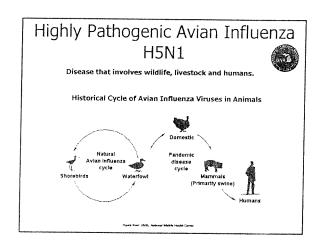
# Avian Influenza in people

- The AI in Southeast Asia and the Middle East is the H5N1 Influenza "A" subtype
- People in these regions, who have come in close contact with sick/or dead birds infected with highly pathogenic H5N1, have contracted the illness.
- To date, we have not documented highly pathogenic H5N1 in the Western Hemisphere

### Potential Scenarios for the H5N1 Strain Entering Michigan

- Wildfowl die-off (DNR lead)
- Domestic Poultry die-off in MI (MDA lead)
- Patient in hospital human international (MDCH lead)
- Pandemic onset (MDCH lead for public health issues)





## Current Surveillance



- Trained field biologists
- Laboratory technicians
- Trained wildlife veterinarians
- Partnership with MSU Diagnostic Center for Population and Animal Health

#### Surveillance Activities



Michigan Department of Natural Resources Wildlife Division

Determine whether or not highly pathogenic H5N1 virus currently exists in free-ranging wild birds in Michigan, and its geographic extent, if present.

Provide a framework for ongoing surveillance to detect introduction of highly pathogenic H5N1 virus into wild birds in the future.



#### Surveillance Activities

Michigan Department of Natural Resources Wildlife Division

· Examination of wild bird carcasses





### Surveillance Activities

Michigan Department of Natural Resources Wildlife Division







## Surveillance Activities

Michigan Department of Natural Resources Wildlife Division

Testing hunter-killed wild birds



### Response Activities

Michigan Department of Natural Resources Wildlife Division



If the disease is found in wild birds:

Limit transmission from wild birds to humans

Limit transmission from wild birds to poultry



## MDA Avian Influenza (AI) Briefing: Prevent

Surveillance Led to Three Highly Pathogenic Findings in U.S.

- 1924 "Fowl Plague" affected live bird markets in the Northeastern U.S.
- 1983 destruction of 17 million birds in PA
- 2004 quickly contained, eradicated in TX



# MDA Avian Influenza (AI) Briefing: Prepare

- Established Poultry Disease Response Plan
- Exercises
- MI Emergency Veterinary Network (Vet Net)
- Education and outreach to hobby flock owners through fairs and exhibitions



## MDA Avian Influenza (AI) Briefing: Respond

- Established Poultry disease protocol (emergency response manual)
- Quarantine authority
- Authority to order destruction of animals
- Mass carcass disposal plan
- Fax Blast rapid notification system to veterinarians and other key responders



## MDA Avian Influenza (AI) Briefing: Recover

- Authority to pay indemnity
- Employee counseling services available for responders
- Business recovery planning assistance



## MDA Avian Influenza (AI) Briefing Partners in Disease Control

- - Laboratory
  - College of Agriculture and Natural Resources
- USDA
  - Wildlife Services
  - Veterinary Services
- DNR
- MDCH
- Stakeholders



## MDA Avian Influenza (AI) Briefing

## Outreach and Education

- Industry
- Bird owners
- Veterinarians
- Public





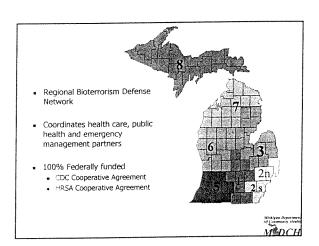
## Estimated Impact of Pandemic Influenza

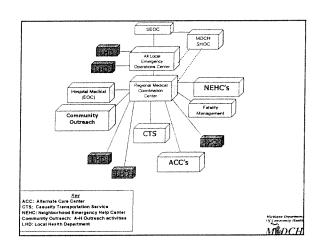
	United States (assuming a 15-35% attack rate)	Michigan (assuming a 30% attack rate)
Clinically III	63 to 90 Million	3.4 Million
Outpatient Visits	18 to 42 Million	2 Million
Hospitalizations	314,000 to 734,000	51,000
Deaths	89,000 to 207,000	15,000

### Avian/Pandemic Influenza Preparedness

MDCH Surveillance and Response Public Health Preparedness in Michigan

W DCH





## MDCH Pandemic Influenza Plan 2005

- Updated from MDCH 2002 Plan
- Prevention or control of pandemic influenza will be met through:
  - Disease & syndromic surveillance
  - Planning and partnership development
  - Building response capacity
  - Testing response capacity



MDCH Bureau of Laboratories

Michigan Department

#### Public Health Response: State and Local Preparedness

- MDCH All Hazards Plan with Pandemic component is part of the Michigan Emergency Management Plan
- State pandemic plan will be exercised this year
- Local pandemic plans are also in place and will be exercised

Medical Distriction

#### **Actions Needed**

- Enact SB 728 Michigan Care Improvement Registry
  - Enhance the Michigan Childhood Immunization Registry by lifting the age restriction so all Michigan citizens can have access to their own immunization records



#### **Actions Needed**

- Emerging infectious diseases require the rapid designation of reportable diseases.
- Enact an amendment to the Public Health Code to authorize the Director to update the reportable disease list without rule making.



#### Conclusion



- Each Department conducts day to day surveillance
- Each Department responds to disease outbreaks
- We continue to improve our response plans for Avian/Pandemic Influenza
- We strive with our partners to educate the public through outreach programs





## Questions?





